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PTO/SB/05 (4/98)  
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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <i>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</i>	Attorney Docket No. <b>59550/117</b>
	First Inventor or Application Identifier <b>Najeh Rahman</b>
	Title <b>TWINKLE LIGHT SET</b>
	Express Mail Label No. <b>FI 564162702</b>

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Specification [Total Pages <b>12</b> ] <i>(preferred arrangement set forth below)</i> - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <b>3</b> ] 4. Oath or Declaration [Total Pages <b>2</b> ] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) <i>(for continuation/divisional with Box 16 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).	5. <input type="checkbox"/> Microfiche Computer Program (Appendix) 6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
<b>ACCOMPANYING APPLICATION PARTS</b> 7. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement of Power of Attorney (when there is an assignee) <input checked="" type="checkbox"/> 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 13. <input type="checkbox"/> * Small Entity Statement filed in prior application, (PTO/SB/09-12) Status still proper and desired 14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. <input type="checkbox"/> Other:	
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☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

Prior application information: Examiner \_\_\_\_\_

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### Complete if Known

Application Number	Unknown
Filing Date	Herewith
First Named Inventor	Najeh Rahman
Examiner Name	Unknown
Group / Art Unit	Unknown
Attorney Docket No.	59550/117

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Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid	
101	690	201	345	Utility filing fee	<b>690.00</b>
106	310	206	155	Design filing fee	
107	480	207	240	Plant filing fee	
108	690	208	345	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$)**690.00**

#### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent	-20** =	X	
Claims	-3** =	X	
Multiple Dependent			

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Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim, if not paid
109	78	209	39	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

### FEE CALCULATION (continued)

#### 3. ADDITIONAL FEES

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid	
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	380	216	190	Extension for reply within second month	
117	870	217	435	Extension for reply within third month	
118	1,360	218	680	Extension for reply within fourth month	
128	1,850	228	925	Extension for reply within fifth month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of an appeal	
121	260	221	130	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,210	241	605	Petition to revive - unintentional	
142	1,210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	<b>X</b>
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	

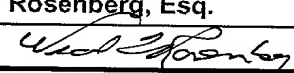
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TWINKLE LIGHT SETBACKGROUND OF THE INVENTION

The present invention relates to a twinkle light set, and more particularly to a twinkle light set which meets Underwriters Laboratory (UL) standards for safety.

UL Standard 588 distinguishes between the flasher bulb (LAMP, FLASHING) and the twinkle bulb (LAMP, INDIVIDUAL FLASHING) as follows:

10 5.16 LAMP, FLASHING - A series-or parallel-connected lamp that automatically cycles on and off by means of a bimetallic strip connected in series with the filament. For series-connected strings, the flashing lamp causes all lamps connected in series with it to flash. For parallel-connected strings, only the flashing lamp is intended to flash.

15 5.17 LAMP, INDIVIDUAL-FLASHING - A series-connected lamp that automatically cycles on and off by means of a bimetallic strip connected in parallel with the filament. The cycling of the bimetallic strip causes only the individual-flashing lamp to flash by momentarily placing a short across the filament to  
20 turn the lamp on and off.

It is well-known to provide a flasher light set wherein a flasher bulb contains a thermally sensitive element which opens and closes the electrical illumination circuit through the bulb according to its "hot" or "cold" state. When the circuit containing the thermally sensitive element opens, there is no electricity supplied to any other bulb in series electrical communication therewith, so that each such series-connected bulb is temporarily extinguished until the element cools and the circuit again closes. Thus, use of even a single flasher bulb causes an entire light set or a section thereof in series  
25 communication to have its bulbs flash on and off with the flasher bulb. The  
30

appearance of a light set in which all of the bulbs or a section of the bulbs flashes on and off in unison presents an aesthetic attraction to a viewer.

However, an even more appealing aesthetic affect is produced by a twinkle light set. Instead of a flasher bulb, the twinkle light set uses a twinkle bulb. The twinkle bulb is similar to the flasher bulb in that a thermally sensitive element opens and closes the electrical illumination circuit which provides illumination of the bulb. However, whereas in the flasher light set no current passes through the bulb when the illumination circuit through the bulb is open, in the twinkle light set, each twinkle bulb has in parallel with the illumination filament a bypass or shorting circuit. The bypass circuit (when closed) presents a low resistance, whereas the illuminating circuit (when closed) presents a high resistance. As the twinkle bulb is illuminated through the illumination circuit, it heats up the normally open switch in the bypass circuit, thereby to close the switch and provide an alternative low resistance path through which the current will preferentially flow. This in turn terminates substantially all of the current passing through the high resistance illumination circuit and leads to cooling of the bulb. After a predetermined amount of cooling, the switch in the bypass circuit returns to its normally open state so that current must flow once again through the illumination circuit.

One major difference between a twinkle light set and a flasher light set is that each twinkle bulb acts independently of the other twinkle or standard bulbs in series therewith because the twinkle bulb always passes current therethrough (whether through the illumination circuit or through the bypass circuit). Thus, in a twinkle light set, a wide variety of aesthetic affects may be obtained dependent upon the placement of the twinkle bulbs. For example, a twinkle light set may consist of a plurality of substantially vertical light strings, with each bulb in a given light string being in series. A set of light strings (at least one light string being in each light string set) may contain only ordinary or standard steady-burning bulbs, while an alternate set of light strings (at least one light string being in each light string set) may contain only twinkle

bulbs. The standard bulbs remain on constantly, while the twinkle bulbs twinkle on and off independently of each other, seemingly at random, as a counterpoint to provide an enhanced aesthetic appearance. Clearly any given light string(s) may include both standard and non-standard twinkle bulbs for  
5 providing a more startling aesthetic experience.

In a conventional twinkle light set typically a large or major proportion of the bulbs (at least 50% thereof) are ordinary or standard steady-burning bulbs. Thus, even if all of the illumination circuits of all of the twinkle bulbs were, through happenstance, to open at the same time, so that each of the  
10 twinkle bulbs presented only the low resistance bypass path to the current, the standard bulbs (with their high resistance illumination circuits) would dissipate the current sufficiently to ensure safety of the light set and prevent a dangerous burn-out.

However, it is known that some twinkle light set users prefer for  
15 aesthetic reasons to modify the purchased twinkle light set and convert it to an exclusively twinkle bulb light set by replacing each standard bulb of the light set with a twinkle bulb. As a result, when, by happenstance, all of the illumination circuits of all of the twinkle bulbs are open, the current passes substantially unchecked and undiminished through the low resistance bypass circuits in a  
20 decidedly unsafe manner which can lead to melting of conductors, burning of insulation, fires, and the like. While twinkle light sets are usually sold with instructions cautioning against the replacement of standard bulbs with twinkle bulbs, users do not always heed this caution.

Accordingly, recently enacted Underwriters Laboratory (UL)  
25 regulations, Section 588, requires that a series-wound twinkle light set have a minimum of fifty bulbs per circuit (to minimize the current passing through any given bulb) and that at least twenty-five of such fifty bulbs be standard steady-burning bulbs (as opposed to non-standard twinkle bulbs). This ensures that in each circuit of a series-wound twinkle light set there are an adequate number of  
30 ordinary bulbs to dissipate the current, even if by happenstance all of the

twinkle bulbs are passing the current through the low resistance bypass circuits rather than the high resistance illumination circuits.

Accordingly, it is an object of the present invention to provide a twinkle light set which meets UL standards, and in particular Section 588

5 thereof.

Another object is to provide such a light set which precludes the user from replacing standard steady-burning bulbs with non-standard twinkle bulbs.

A further object is to provide such a light set which is simple and  
10 economical to manufacture, use and maintain.

#### SUMMARY OF THE INVENTION

It has now been found that the above and related objects of the present invention are obtained in a twinkle light set comprising, alternately from one end of a light set to an opposite end of a light set, at least one  
15 standard bulb socket configured and dimensioned to operatively receive a standard (e.g., steady-burning) bulb and at least one non-standard bulb socket configured and dimensioned to operatively receive a non-standard twinkle bulb. The standard and non-standard bulb sockets are configured and dimensioned to operatively receive only standard and non-standard bulbs, respectively.

20 In a preferred embodiment, the interior of the standard bulb socket is sized differently (preferably smaller) in at least one dimension than the interior of the non-standard bulb socket such that the standard bulb socket cannot operatively receive a non-standard bulb.

The invention also encompasses, in combination, a twinkle bulb  
25 light set, a plurality of standard (e.g. steady-burning) bulbs and a plurality of non-standard twinkle bulbs. The exterior of the base portion of each of the non-standard bulbs is sized differently (preferably greater) in at least one dimension than the exterior of the base portion of each of the standard bulbs such that the standard bulb socket cannot operatively receive a non-standard bulb.

30 Preferably, the non-standard bulb socket defines a keyway, the non-standard

bulb defines a mating key, and the standard bulb socket lacks a mating keyway, whereby a non-standard bulb will not fit in a standard bulb socket.

#### BRIEF DESCRIPTION OF THE DRAWING

The above and related objects, features and advantages of the present invention will be more fully understood by reference to the following detailed description of the presently preferred, albeit illustrative, embodiments of the present invention when taken in conjunction with the accompanying drawing wherein:

FIG. 1 is a fragmentary schematic view of a twinkle light set having smaller standard bulb sockets and larger non-standard twinkle bulb sockets;

FIG. 2 is a schematic representation of one embodiment of a twinkle bulb in a preferred twinkle bulb socket;

FIG. 3 is a sectional view taken along the line 3-3 of FIG. 2;

FIG. 4 is a schematic representation of another embodiment of a twinkle bulb in another preferred twinkle bulb socket; and

FIG. 5 is a sectional view thereof taken along the line 5-5 of FIG. 4.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the drawing, and in particular to FIG. 1 thereof, therein illustrated is a twinkle light set according to the present invention, generally designated by the reference numeral 10. The illustrated light set 10 is an icicle light set wherein the various bulbs are disposed on light strings depending from the horizontally extending active and return wires A, R which connect the two ends of the light set. While the illustrated light set involves a standard icicle or light string 12, followed by a twinkle light string 14, followed by another standard light string 16, followed by another twinkle light string 18, clearly different icicle light set patterns may be used; for example, each standard light string 12, 16 may be replaced by more than one standard light string and each twinkle light string 14, 18 may be replaced by more than one

twinkle light string. Thus, a group or string set of standard bulb light strings 12, 16 may alternate with a group or set of twinkle light strings 14, 18. Indeed, as will be appreciated by those skilled in the art, the twinkle light set 10 according to the present invention need not be in the form of an icicle light set, and may instead be a net or mesh light set, a patterned light set (for example, forming diamonds rather than rectangles) or the like. The nodes or connections between adjacent light strings may be formed either at the lamp sockets or at the wires connecting the lamp sockets of each light string.

Each standard or twinkle light string 12-18 is connected to the horizontally extending active wire A at point 20 and to the horizontally extending return wire R at point 22. Clearly, the height of each light string 12-18, may be varied to incorporate the desired number of bulbs per light string and the number of light strings in a given light set may be varied to provide a desired number of bulbs in a light set.

In order to preclude the user from modifying the light set 10 after purchase so that it is no longer safe and remains in compliance with UL standards, the light set 10 comprises, alternately from one end 30 of the light set 10 to an opposite end 32 of the light set 10, at least one standard bulb socket 50 and at least one non-standard bulb socket 52. The standard bulb socket 50 is configured and dimensioned to operatively receive the base portion of a standard steady-burning bulb 51, while the non-standard bulb socket 52 is configured and dimensioned to operatively receive the base portion of a non-standard twinkle bulb 53. More particularly, the standard and non-standard bulb sockets 50, 52 are configured and dimensioned to operatively receive the base portions of only standard and non-standard bulbs 51, 53, respectively.

The last requirement may be achieved through a variety of different mechanisms. Preferably the interior of the standard bulb socket 50 is sized differently (as illustrated, smaller) than the interior of the non-standard bulb socket 52 such that the standard bulb socket 50 cannot operatively receive therein a non-standard bulb 53. Alternatively, the interiors of each of the



standard bulb sockets 50 may be greater than the exterior of each of the non-standard bulbs 53. Thus, as illustrated in FIGS. 2 and 3, a twinkle light set 10 may be used with a plurality of standard steady-burning bulbs 51 and a plurality of non-standard twinkle bulbs 53 wherein each of the non-standard bulbs 53 has at least one exterior dimension sized differently (as illustrated, greater) than that of each of the standard bulbs 51, so as to preclude operative receipt of a non-standard bulb 53 in the interior of a standard bulb socket 50. Alternatively, as illustrated in FIGS. 4 and 5, each of the non-standard bulbs 53 may have at least one exterior dimension smaller than that of each of the standard bulbs 51 so that the twinkle bulb socket 52 cannot operatively receive therein a standard bulb 51.

For example, as illustrated in FIGS. 2 and 3, the non-standard bulb socket 52 may define an interior surface having an outwardly projecting keyway 60 and the non-standard bulb 53 may define an exterior surface having an outwardly projecting mating key 62 such that the key 62 of the non-standard bulb 53 precludes operative receipt thereof in a standard bulb socket 50 lacking a corresponding keyway 60. Alternatively, as illustrated in FIGS. 4 and 5, the non-standard bulb socket 52 may define an interior surface having an inwardly projecting key 64 and the non-standard bulb 53 may define an exterior surface having an inwardly projecting mating keyway 66 such that the key 64 of the non-standard bulb socket 52 allows operative receipt of a non-standard bulb 53 therein, yet precludes operative receipt therein of a standard bulb 51 lacking the keyway 66 to receive the socket key 64. The object of such designs is to preclude the introduction of a non-standard bulb 53 into a standard bulb socket 50, for the sake of safety and to meet UL standards. The designs may or may not permit the introduction of a standard bulb 51 into a non-standard bulb socket 52, as such a substitution does not involve safety considerations or violate UL standards.

Preferably the standard bulb socket interior is smaller in at least one dimension than the non-standard bulb socket interior, and the non-standard

bulb exterior is greater in such at least one dimension than the standard bulb exterior. Preferably, the non-standard bulb socket 52 defines a keyway 60, the non-standard bulb 53 defines a mating key 62, and the standard bulb socket 50 lacks a mating keyway, whereby a non-standard bulb 53 will not fit in a standard bulb socket 50.

It is a matter of choice whether or not the exteriors of the different types of bulb sockets -- that is, the standard bulb socket 50 and the non-standard bulb socket 52 -- are identical in configuration and dimensions (or even color) so long as the user cannot inadvertently or intentionally substitute a non-standard twinkler bulb 53 within an ordinary or standard light socket 50. However, if desired, some clearly visible distinction (such as color or other indicia) may be used to signify to the user that a particular bulb socket is a non-standard bulb socket 52.

While the principles of the present invention have been explained above in terms of a standard steady-burning bulb and a non-standard twinkler bulb, it is irrelevant for the purposes of the present invention whether the standard bulb 51 is a steady-burning bulb or a flasher bulb.

Clearly, the non-standard bulb 53 may fit into the standard bulb socket 50 as long as it is not "operatively" received therein - i.e., does not establish effective electrical communication therewith.

To summarize, the present invention provides a twinkler light set which meets UL standards, and in particular Section 588 thereof, by precluding the user from replacing standard steady-burning bulbs with non-standard twinkler bulbs. The light set is simple and economical to manufacture, use and maintain.

Now that the preferred embodiments of the present invention have been shown and described in detail, various modifications and improvements thereon will become readily apparent to those skilled in the art. Accordingly, the spirit and scope of the present invention is to be construed

broadly and limited only by the appended claims and not by the foregoing specification.

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I CLAIM:

1. A twinkle light set comprising:  
alternately from one end of said light set to an opposite end of  
said light set, at least one standard bulb socket configured and dimensioned to  
operatively receive a standard bulb and at least one non-standard bulb socket  
5 configured and dimensioned to operatively receive a non-standard twinkle bulb;  
said standard and non-standard bulb sockets being configured and  
dimensioned to operatively receive only standard and non-standard bulbs,  
respectively.
- 10 2. The light set of Claim 1 wherein the interior of said  
standard bulb socket is sized differently in at least one dimension than the  
interior of said non-standard bulb socket such that said standard bulb socket  
cannot operatively receive a non-standard bulb.
3. The light set of Claim 2 wherein said standard bulb socket  
15 interior is smaller in said at least one dimension than said non-standard bulb  
socket interior.
4. In combination, a twinkle light set of Claim 1, a plurality of  
standard bulbs and a plurality of non-standard twinkle bulbs, the exterior of  
each of said non-standard bulbs is sized differently in at least one dimension  
20 than the exterior of each of said standard bulbs such that said standard bulb  
socket cannot operatively receive a non-standard bulb.
5. The combination of Claim 4 wherein said non-standard  
bulb is greater in said at least one dimension than said standard bulb.
6. In combination, a twinkle light set, a plurality of standard  
25 bulbs and a plurality of non-standard twinkle bulbs, said twinkle light set  
comprising:  
alternately from one end of said light set to an opposite end of  
said light set, at least one standard bulb socket configured and dimensioned to  
operatively receive a standard bulb and at least one non-standard bulb socket  
30 configured and dimensioned to operatively receive a non-standard twinkle bulb;

said standard and non-standard bulb sockets being configured and dimensioned to operatively receive only standard and non-standard bulbs, respectively;

5 the interior of said standard bulb socket being sized differently in at least one dimension than the interior of said non-standard bulb socket such that said standard bulb socket cannot operatively receive a non-standard bulb; and the exterior of each of said non-standard bulbs being sized differently in at least one dimension than the exterior of each of said standard bulbs such that said standard bulb socket cannot operatively receive a non-standard bulb.

10 7. The combination of Claim 6 wherein said standard bulb socket interior is smaller in said at least one dimension than said non-standard bulb socket interior, and said non-standard bulb is greater in said at least one dimension than said standard bulb.

15 8. The combination of Claim 6 wherein the non-standard bulb socket defines a keyway, the non-standard bulb defines a mating key, and the standard bulb socket lacks a mating keyway, whereby a non-standard bulb will not fit in a standard bulb socket.

ABSTRACT OF THE DISCLOSURE

A twinkle bulb light set includes, alternately from one end of the light set to an opposite end of the light set, at least one standard bulb socket configured and dimensioned to operatively receive a standard or steady-burning bulb and at least one non-standard bulb socket configured and dimensioned to operatively receive a non-standard twinkle bulb. The standard and non-standard bulb sockets are configured and dimensioned to operatively receive only standard and non-standard bulbs, respectively. Preferably the standard bulb socket is smaller than the non-standard bulb socket in at least one dimension such that the standard bulb socket cannot operatively receive a non-standard bulb, and the non-standard bulbs have at least one dimension greater than that of the standard bulbs, thereby to preclude operative receipt of a non-standard bulb in a standard bulb socket.

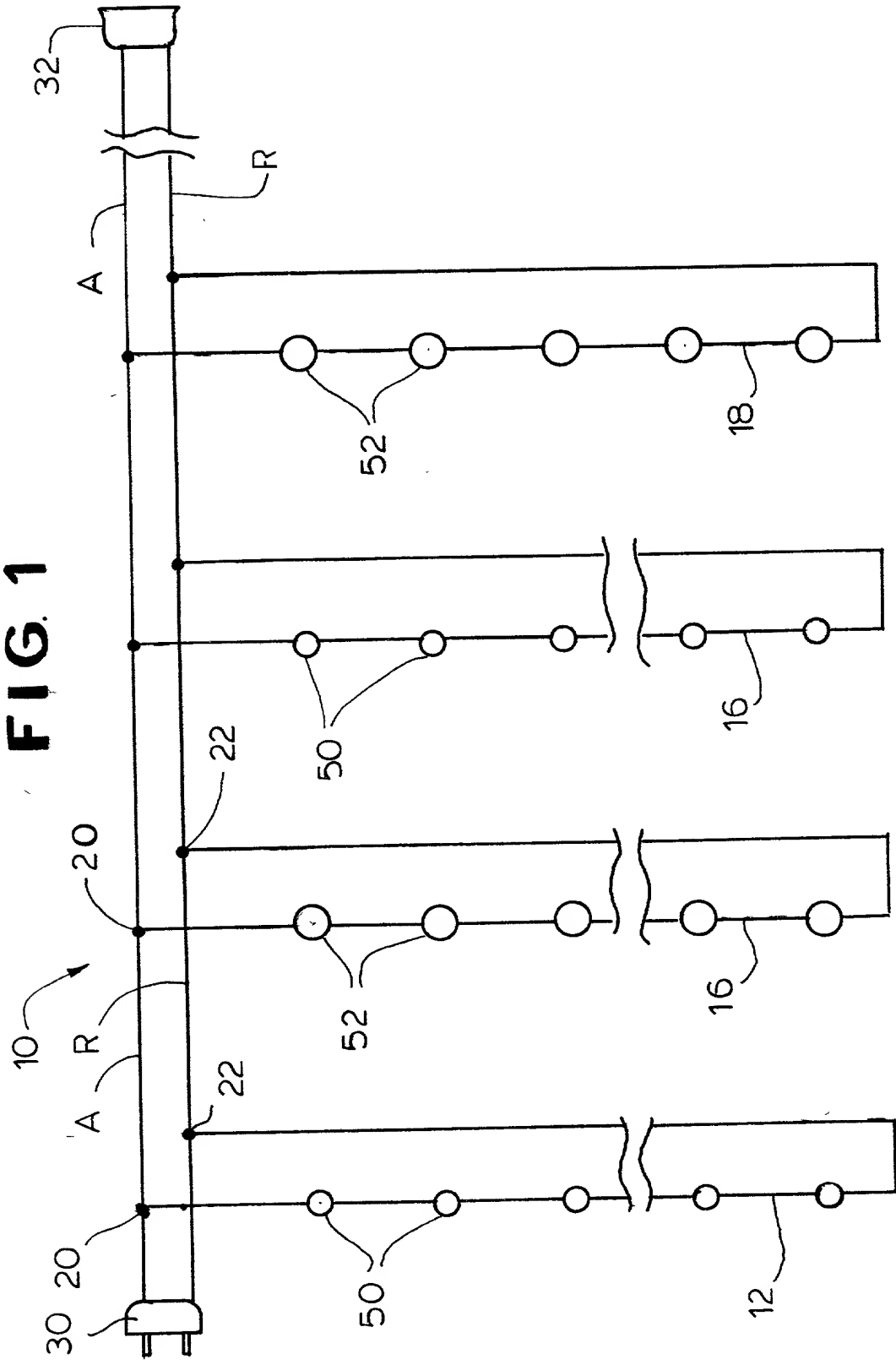
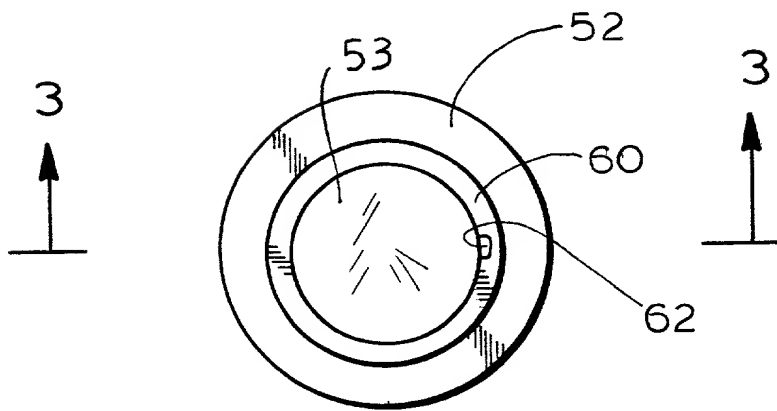
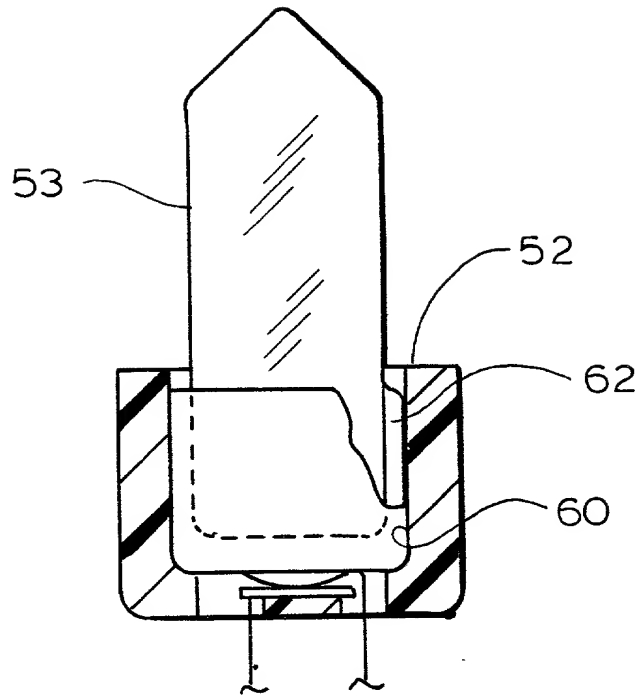


FIG. 1

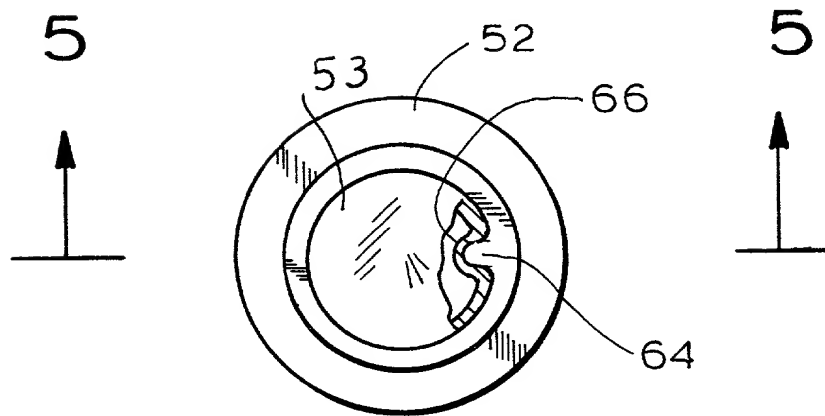
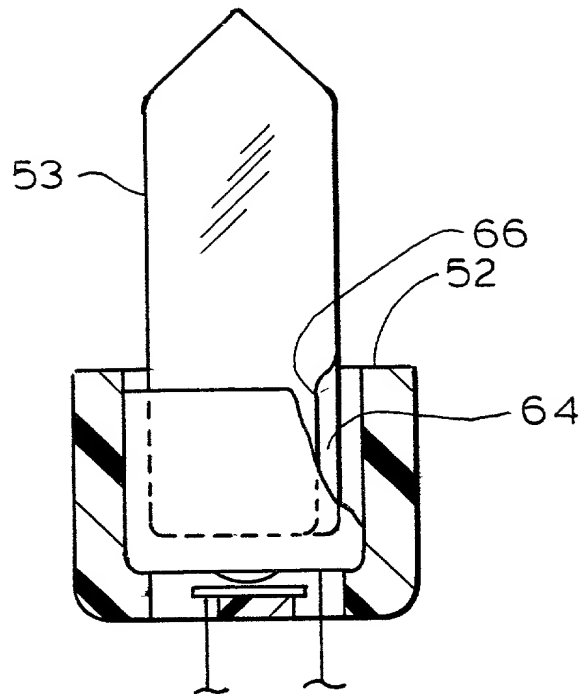
**FIG. 3**



**FIG. 2**



**FIG. 5**



**FIG. 4**

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63)	<b>Attorney Docket Number</b>	59550/117
	<b>First Named Inventor</b>	Najeh Rahman
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	Unknown
	<b>Filing Date</b>	Herewith
	<b>Group Art Unit</b>	Unknown
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	<b>Examiner Name</b>	Unknown

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My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**TWINKLE LIGHT SET**

the specification of which (Title of the Invention)

☒ is attached hereto  
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
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☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below

Application Number(s)	Filing Date (MM/DD/YYYY)

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## DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

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As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto

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Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
Najeh	Rahman

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☒ Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto